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1 [XML document security based on provisional authorization](#)



Michiharu Kudo, Satoshi Hada

November 2000

Proceedings of the 7th ACM conference on Computer and communications security

Publisher: ACM Press

 Full text available: pdf(456.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: XML, access control, provisional authorization, security transcoding

2 [A semantic transcoding system to adapt Web services for users with disabilities](#)



Anita W. Huang, Neel Sundaresan

November 2000

Proceedings of the fourth international ACM conference on Assistive technologies

Publisher: ACM Press

 Full text available: pdf(154.74 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: Web accessibility, Web intermediaries, XML transcoding, adaptability, adaptivity, disabled users

3 [Annotation-based transcoding for nonvisual web access](#)



Chieko Asakawa, Hironobu Takagi

November 2000

Proceedings of the fourth international ACM conference on Assistive technologies

Publisher: ACM Press

 Full text available: pdf(451.21 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: blind, commentary annotation, nonvisual web access, structural annotation, transcoding system


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1 [Systems Issues: On balancing between transcoding overhead and spatial](#)



[consumption in content adaptation](#)

Wai Yip Lum, Francis C.M. Lau

 September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Publisher: ACM Press

 Full text available: [pdf\(2.18 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a method that can find the optimal tradeoff point between transcoding overhead (CPU cost) and storage needed for the various pre-processed content variants (I/O cost). The method selectively pre-adapts a subset of content variants and leaves the generation of the residue to dynamic content adaptation with this pre-adapted subset as an input. We prove bounds regarding the optimality of the algorithm employed. The proposed model creates a collaborative environment across the components ...

Keywords: content adaptation, mobile computing, performance optimization, pervasive computing, pre-adaptation

2 [Scalable multimedia delivery for pervasive computing](#)



John R. Smith, Rakesh Mohan, Chung-Sheng Li

 October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Publisher: ACM Press

 Full text available: [pdf\(1.27 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Growing numbers of pervasive devices are gaining access to the Internet and other information sources. However, much of the rich multimedia content cannot be easily handled by the client devices with limited communication, processing, storage and display capabilities. In order to improve access, we are developing a system for scalable delivery of multimedia. The system uses an InfoPyramid for managing and manipulating multimedia content composed of video, images, audio and text. The InfoPyr ...

3 [Doctoral Symposium: Media transcoding for pervasive computing](#)



Zhijun Lei

 October 2001 **Proceedings of the ninth ACM international conference on Multimedia**


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1 [Coordinated enroute multimedia object caching in transcoding proxies for tree](#)

[networks](#)

Keqiu Li, Hong Shen

 August 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 3

Publisher: ACM Press

 Full text available: pdf(861.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Transcoding is a promising technology that allows systems to effect a quality-versus-size tradeoff on multimedia objects. As audio and video applications have proliferated on the Internet, caching in transcoding proxies has become an important technique for improving network performance, especially in mobile networks. This article addresses the problem of coordinated enroute multimedia object caching in transcoding proxies for tree networks. We formulate this problem as an optimization problem b ...

Keywords: Internet, Web caching, multimedia object, optimization problem, transcoding proxy, tree network

2 [Mobile data management: Middleware support for reconciling client updates and data](#)

[transcoding](#)

Thomas Phan, George Zorpas, Rajive Bagrodia

 June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

 Full text available: pdf(4.80 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In mobile Internet applications, data can be transcoded, updated, and transferred across heterogenous clients. The problem then arises where updates made in the context of an initial transcoding results in content too stringently transcoded for subsequent clients, thereby causing loss of semantic value. We solve this problem by suggesting that the updates themselves can be transformed so that they can be applied directly to the original data instead of to the transcoded data; this approach allow ...

Keywords: client updates, data management, middleware, mobile computing, reconciliation, transcoding